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| Substitute Form PTO-1449 (Modified) | U.S. Department of Commerce Patent and Trademark Office | Attorney's Docket No. 17601-045001 | Application No. 10/788,694 |
| Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b)) | | Applicant Joseph A. Zupanick | |
| | | Filing Date February 27, 2004 | Group Art. Unit 3672 |

U.S. Patent Documents

| Examiner Initial | Desig. ID | Document Number | Publication Date | Patentee | Class | Subclass | Filing Date If Appropriate |
|------------------|-----------|-----------------|------------------|----------|-------|----------|----------------------------|
| DS | A1 | 2005/0252689 A1 | 11/17/2005 | Gardes | | | |
| | A2 | | | | | | |
| | A3 | | | | | | |
| | A4 | | | | | | |
| | A5 | | | | | | |
| | A6 | | | | | | |
| | A7 | | | | | | |
| | A8 | | | | | | |
| | A9 | | | | | | |
| | A10 | | | | | | |
| | A11 | | | | | | |

Foreign Patent Documents or Published Foreign Patent Applications

| Examiner Initial | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation | Yes | No |
|------------------|-----------|-----------------|------------------|--------------------------|-------|----------|-------------|-----|----|
| | | | | | | | Yes | | |
| | B1 | | | | | | | | |
| | B2 | | | | | | | | |
| | B3 | | | | | | | | |
| | B4 | | | | | | | | |
| | B5 | | | | | | | | |

Other Documents (include Author, Title, Date, and Place of Publication)

| Examiner Initial | Desig. ID | Document |
|------------------|-----------|--|
| DS | C1 | Paul F. Conti and Michael Schumacher, "Solution Mining in the Nineties," Presented at the Fall 1991 meeting of the Solution Mining Research Institute, October 27-30, 1991, 11 pages |
| DS | C2 | Notification of Transmittal of the International Preliminary Report on Patentability (1 page), International Preliminary Report on Patentability (7 pages) and Amended Sheets (9 pages) for International Application No. PCT/US2004/012029 mailed August 11, 2005 |
| | C3 | |
| | C4 | |

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| Examiner Signature /Daniel Stephenson/ | Date Considered 01/05/2007 |
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EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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| | | | | Group Art Unit 3672 | |

U.S. Patent Documents

| Examiner Initial | Desig. ID | Document Number | Publication Date | Patentee | Class | Subclass | Filing Date If Appropriate |
|------------------|-----------|-----------------|------------------|----------|-------|----------|----------------------------|
| DS | A1 | 4,296,969 | 10/27/1981 | Willman | | | |
| | A2 | | | | | | |
| | A3 | | | | | | |
| | A4 | | | | | | |
| | A5 | | | | | | |

Foreign Patent Documents or Published Foreign Patent Applications

| Examiner Initial | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation | |
|------------------|-----------|----------------------|------------------|--------------------------|-------|----------|-------------|----|
| | | | | | | | Yes | No |
| DS | B1 | WO 03/038233 A1 | 05/08/2003 | WIPO | | | N/A | |
| DS | B2 | WO 2005/012688 A1 | 02/10/2005 | WIPO | | | N/A | |
| | B3 | | | | | | | |
| | B4 | | | | | | | |
| | B5 | | | | | | | |

Other Documents (include Author, Title, Date, and Place of Publication)

| Examiner Initial | Desig. ID | Document |
|------------------|-----------|---|
| DS | C1 | Notification Concerning Transmittal of Copy of International Preliminary Report on Patentability (1 page), International Preliminary Report on Patentability (1 page), and Written Opinion (5 pages) for International Application No. PCT/US2005/005289 mailed September 8, 2006 |
| DS | C2 | Invitation to Pay Additional Fees (2 pages) and Annex to Form PCT/ISA/206 Communication Relating to the Results of the Partial International Search (3 pages) for International Application No. PCT/US2006/021057 mailed September 11, 2006 |
| DS | C3 | Kalinin, D.G., et al., Translation of Selected Pages, "Boring Direction and Horizontal Wells," Moscow, "Nedra", 1997, p. 11-12, 148-152 (15 pages) |
| DS | C4 | Evaluation of Coalbed Methane Well Types in the San Juan Basin, prepared by Malkewicz Hueni Associates, Inc. for The Bureau of Land Management, March 2004, 23 pages |

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